

(January 3, 2006)

Emulsified asphalt shall be grade CMS-2M as specified below. Asphalt temperature at the time of introduction to the pugmill shall be between 130 degrees and 160 degrees F.

CATIONIC EMULSIFIED ASPHALT

MEDIUM SETTING MIXING GRADE

Grade	TYPE	CMS-2M	
	AASHTO Test Method	Min.	Max.
Tests on Emulsions:			
Viscosity SF @ 77 F. (25 C.) sec.	T-59	---	---
Viscosity SF @ 122 F. (50 C.) sec.	T-59	150	450
Storage stability test 1 day %	T-59	---	1
Demulsibility 35 m.l. 0.8% sodium dioctyl sulfosuccinate, %	T-59	---	---
Coating ability & water resistance:			
Coating, dry aggregate	T-59	Good	---
Coating, after spraying	T-59	Fair	---
Coating, wet aggregate	T-59	Fair	---
Coating, after spraying	T-59	Fair	---
Particle charge test*	T-59	Positive	
Sieve test, %	T-59	---	0.10
Cement mixing text, %	T-59	---	---
Distillation:			
Oil distillate by vol. of emulsions %	T-59	6	12
Residue, %	T-59	65	---
Tests on residue from distillation test:			
Penetration, 77F. (25 C.)	T-49	100	250
Ductility, 77F. (25 C.) 5 cm/min., cm.	T-51	40	---
Solubility in trichloro- ethylene, %	T-44	97.5	---

*If the particle charge test is inconclusive, material having a maximum pH value of 6.7 will be acceptable.

1 The estimated emulsified asphalt content of the mixture for this type of paving is 4.5 to
2 7.5 percent.

3
4 The aggregate shall meet the requirements of the grading specified below:

5	6	7	8
	<u>Sieve Designation</u>		<u>Percent Passing</u>
	3/4 inch square opening		100
	1/2 inch square opening		60-80
10	U.S. No. 4 square opening		0-28
11	U.S. No. 10		0-10
12	U.S. No. 200		0-2.0
13	All percentages are by weight		

14
15 The composite aggregate shall be free of clay, loam, organic matter, and other
16 extraneous matter occurring either free or as coating on the particles.

17
18 The fracture requirements are at least two fractured faces on 75 percent and at least
19 one fractured face on 90 percent of the material retained on each sieve, U.S. No. 4 and
20 above.

21
22 The aggregate shall also meet the following requirements:

- 23
- 24 1. Los Angeles Wear, 500 Rev., 30 percent max.
 - 25 2. Degradation factor - 30 min.
- 26

27 Crushed screenings shall be U.S. No. 4 to 0 inch in accordance with Section 9-03.4.

28
29 Acceptance of the aggregate shall be based on samples taken from the cold feed for
30 continuous mix plants and the final mix for all other plants. The plant mixed material will
31 be subject to acceptance for asphalt content at the time of mixing.

32
33 Section 9-03.8(3) is supplemented by the following:

34
35 A minimum of fifty percent of the aggregate shall be in stockpile prior to the mixing
36 operation, unless otherwise permitted by the Engineer.